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Advanced Materials for CO₂ Conversion

Guest Editor:

Dr. Vicente Montes

Department of Chemical
Engineering and Physical
Chemistry, University of
Extremadura, 06006 Badajoz,
Spain

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Message from the Guest Editor

At present, the CO₂ concentration in the atmosphere is increasing due to human activity, having a negative environmental impact in many ecosystems. There are several approaches to mitigate this phenomena: reduce emissions, capture CO₂ from the atmosphere, and convert it to valuable chemicals. A profitable technology for CO₂ conversion to valuable products would drive industrial implementation. During the last decade, many procedures/technologies have been developed; it is likely that not only one solution, but a combination of several procedures, will help to restore the CO₂ levels. However, in the short term, there is a special interest in CO₂ conversion to fuels, as this technology would cycle the CO₂ emitted by industries and activities based on fossil fuel and considerably reduce their carbon footprint.

The aim of this Special Issue is to cover the research trends on materials for CO₂ conversion. Full papers, short communications, and reviews in this field are welcome. Mini-reviews with an overview on the state of the art with the future perspectives and trends will be also considered.



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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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